



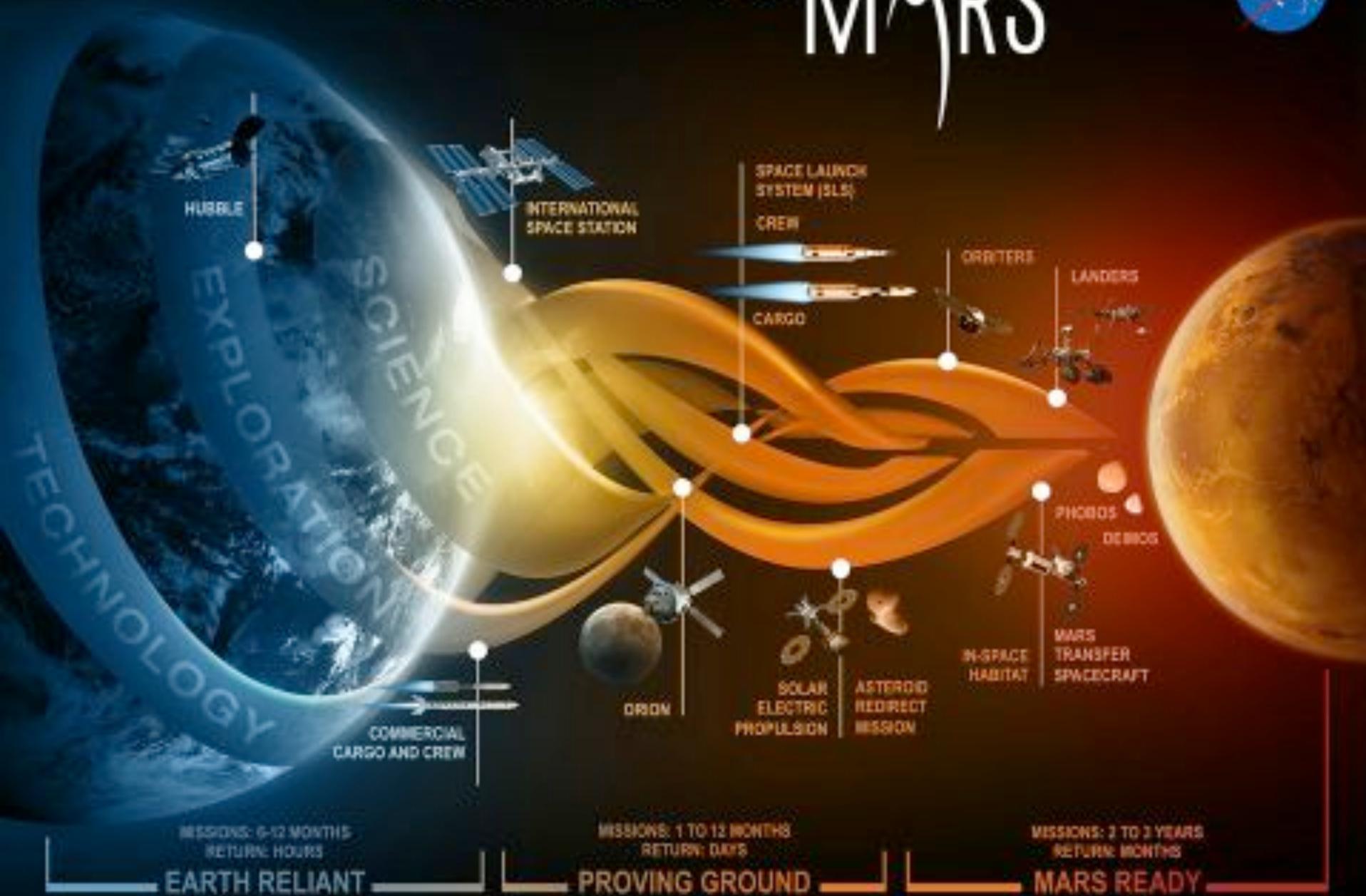
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SPACE LAUNCH SYSTEM

Steve Creech, Deputy Manager
SLS Spacecraft/Payload Integration & Evolution



JOURNEY TO MARS



MISSIONS: 6-12 MONTHS
RETURN: HOURS

EARTH RELIANT

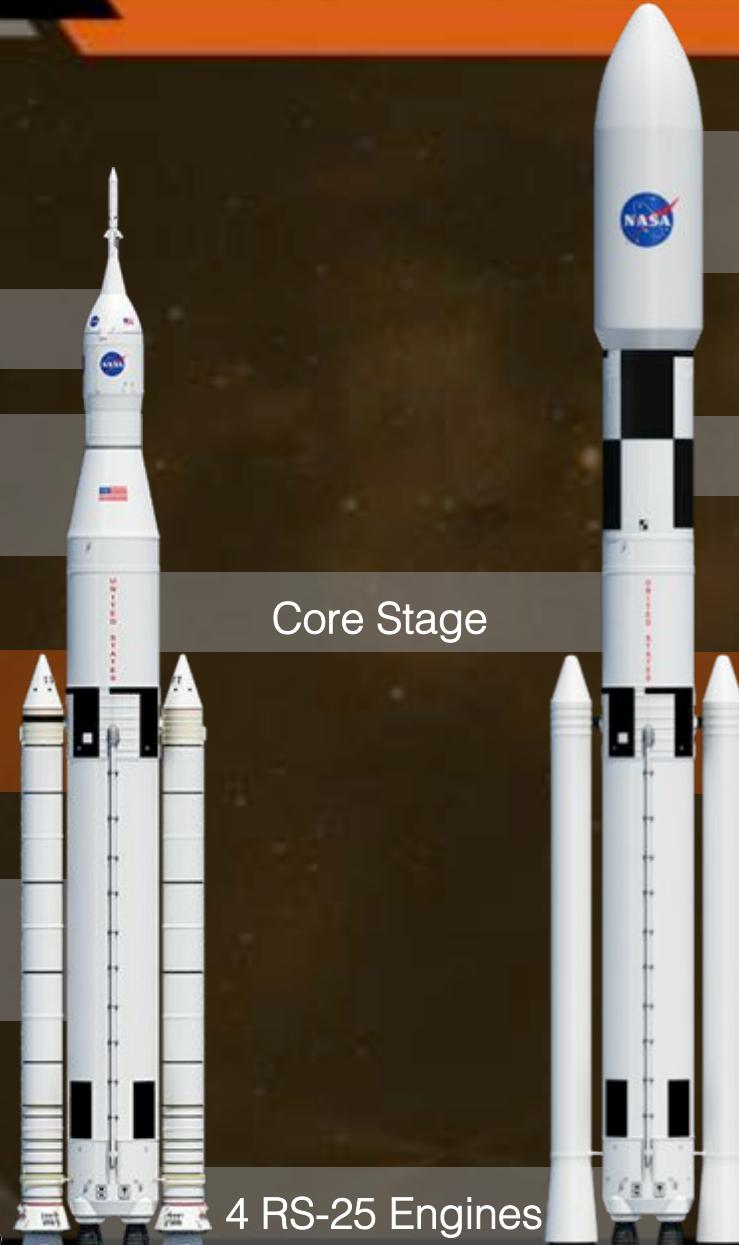
MISSIONS: 1 TO 12 MONTHS
RETURN: DAYS

PROVING GROUND

MISSIONS: 2 TO 3 YEARS
RETURN: MONTHS

MARS READY

THE WORLD'S MOST POWERFUL ROCKET



Core Stage

Block I

70 metric tons

Five-Segment
Solid Rocket Boosters

4 RS-25 Engines

5, 8.4 or 10 Meter
Payload Fairings

Upper Stage

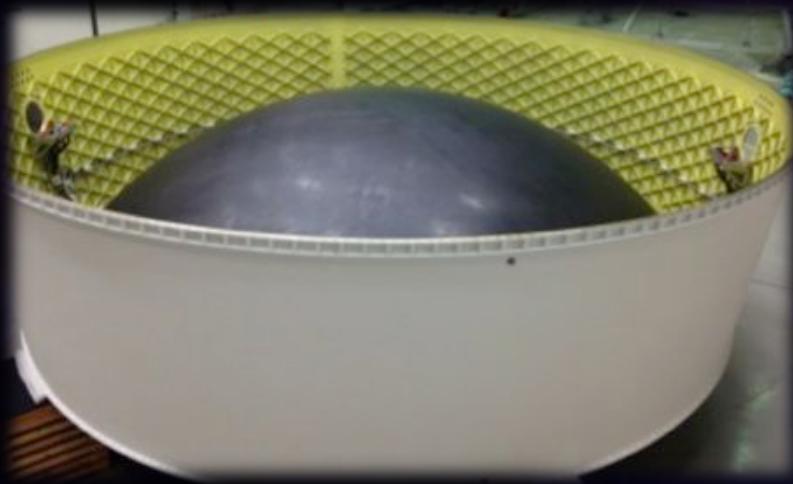
Block II

130 metric tons

Liquid or Solid
Advanced Boosters

SLS FIRST FLIGHT HARDWARE FLOWN

MPCV Stage Adapter (MSA) flown on Orion's First Flight!
December 5, 2014



SLS CORE STAGE PROGRESS



FIRST RS-25 ENGINE FIRING

RS-25 Engine tested at Stennis Space Center
January 9, 2015



BOOSTER'S FIRST FIRING

SLS Booster test firing Qualification Motor 1 (QM-1)



Orbital ATK
Promontory, Utah

PEGASUS BARGE PROGRESS

Renovations are nearing completion
on the Pegasus barge that will
transport the Core Stage.



UPCOMING WORK



RS-25 Testing



LVSA Production



Test Stand Completion



Structural Test Article Welding



Pegasus Barge Refurbishment



Qualification Motor Testing

GAME-CHANGING POWER FOR EXPLORATION



Human
Missions
to Mars



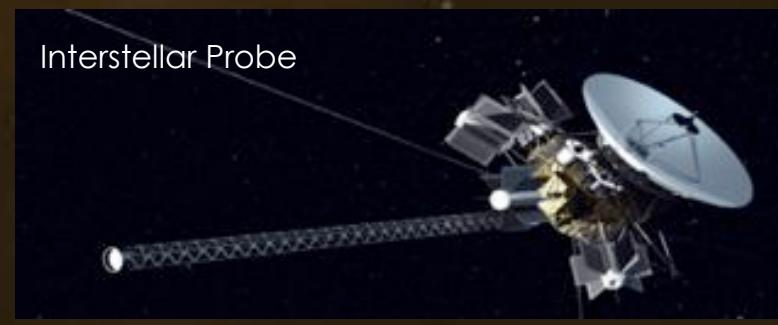
Mars Sample
Return



Europa Exploration



Ultra-Large Space Telescopes



Interstellar Probe



Asteroid
Redirect Mission



Space Stations



Enceladus Geyser Sample Return



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